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 TI Manufacture of **composition** for preparing cellular **fly ash**-concrete for walls and heat-insulating structures  
 IN Belov, V. V.; Kulagin, Yu. V.; Gevorkyan, V. A.  
 PA Russia  
 SO Russ., No pp. given  
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 DT Patent  
 LA Russian  
 IC ICM C04B038-02  
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 CC 58-2 (Cement, Concrete, and Related Building Materials)  
 FAN.CNT 1

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AB The compn. comprises **cement** 25.6-32.8, **fly ash** from thermoelec. plant 32.7-41, sodium sulfate 0.51-0.66, foaming agent (e.g., aluminum powder) 0.1-0.26, and tempering **water** in the balance. Sodium sulfate is used as alkali additive and hardening agent. The manuf. comprises (a) prepg. a viscous raw mix of components, (b) pre-activating **fly ash**, (c) swelling raw mix, (d) hardening during evapn. or under normal conditions, and (e) activating **fly ash** by combined grinding of all dry mix components for 20-40 min. Prior to grinding, dry superplasticizer S-3 in amt. of 0.7-1% of **cement** wt. is added into the mix, and sulfanol surfactant is added into tempering **water** in amt. of 0.2-0.5% of **water**. The method improves properties of the compn.  
 ST cellular concrete **cement fly ash** thermal insulator wall